# 2. Reference Information

## 2-1 Tables of Abbreviations and Acronyms

**Table 2-1 Abbreviations**

| | | | |
|---|---|---|---|
| A | Ampere | MV | Megavolt |
| Ah | Ampere-hour | MW | Megawatt |
| Å | Angstrom | MΩ | Megohm |
| dB | Decibel | m | Meter |
| dBm | Decibel Referenced to One Milliwatt | µA | Microampere |
| | | µF | Microfarad |
| °C | Degree Celsius | µH | Microhenry |
| °F | Degree Fahrenheit | µm | Micrometer |
| °K | degree Kelvin | µs | Microsecond |
| F | Farad | µW | Microwatt |
| G | Gauss | mA | Milliampere |
| GHz | Gigahertz | mg | Milligram |
| g | Gram | mH | Millihenry |
| H | Henry | ml | Milliliter |
| Hz | Hertz | mm | Millimeter |
| h | Hour | ms | Millisecond |
| ips | Inches Per Second | mV | Millivolt |
| kWh | Kilowatt-hour | nF | Nanofarad |
| kg | Kilogram | Ω | Ohm |
| kHz | Kilohertz | pF | Picofarad |
| kΩ | Kilohm | lb | Pound |
| km | Kilometer | rpm | Revolutions Per Minute |
| km/h | Kilometer Per Hour | rps | Revolutions Per Second |
| kV | Kilovolt | s | Second (Time) |
| kVA | Kilovolt-ampere | V | Volt |
| kW | Kilowatt | VA | Volt-ampere |
| l | Liter | W | Watt |
| MHz | Megahertz | Wh | Watt-hour |

**Table 2-2 Table of Acronyms**

| | |
|---|---|
| ABL | Automatic Brightness Limiter |
| AC | Alternating Current |
| ACC | Automatic Chroma Control |
| AF | Audio Frequency |
| AFC | Automatic Frequency Control |
| AFT | Automatic Fine Tuning |
| AGC | Automatic Gain Control |
| AM | Amplitude Modulation |
| ANSI | American National Standards Institute |
| APC | Automatic Phase Control |
| APC | Automatic Picture Control |
| A/V | Audio-Video |
| AVC | Automatic Volume Control |
| BAL | Balance |
| BPF | Bandpass Filter |
| B-Y | Blue-Y |
| CATV | Community Antenna Television (Cable TV) |
| CB | Citizens Band |
| CCD | Charge Coupled Device |
| CCTV | Closed Circuit Television |
| Ch | Channel |
| CRT | Cathode Ray Tube |
| CW | Continuous Wave |
| DC | Direct Current |
| DVM | Digital Volt Meter |
| EIA | Electronics Industries Association |
| ESD | Electrostatic Discharge |
| ESD | Electrostatically Sensitive Device |
| FBP | Feedback Pulse |
| FBT | Flyback Transformer |
| FF | Flip-Flop |
| FM | Frequency Modulation |
| FS | Fail Safe |
| GND | Ground |
| G-Y | Green-Y |
| H | High |
| HF | High-Frequency |
| HI-FI | High Fidelity |
| IC | Inductance-Capacitance |
| IC | Integrated Circuit |
| IF | Intermediate Frequency |
| I/O | Input/output |
| L | Left |
| L | Low |
| LED | Light Emitting Diode |
| LF | Low Frequency |
| MOSFET | Metal-Oxide-Semiconductor-Field-Effect-Tr |
| MTS | Multi-channel Television Sound |
| NAB | National Association of Broadcasters |
| NEC | National Electric Code |
| NTSC | National Television Systems Committee |
| OSD | On Screen Display |
| PCB | Printed Circuit Board |
| PLL | Phase-Locked Loop |
| PWM | Pulse Width Modulation |
| QIF | Quadrature Intermediate Frequency |
| R | Right |
| RC | Resistor & Capacitor |
| RF | Radio Frequency |
| R-Y | Red-Y |
| SAP | Second Audio Program |
| SAW | Surface Acoustic Wave(Filter) |
| SIF | Sound Intermediate Frequency |
| SMPS | Switching Mode Power Supply |
| S/N | Signal/Noise |
| SW | Switch |
| TP | Test Point |
| TTL | Transistor Transistor Logic |
| TV | Television |
| UHF | Ultra High Frequency |
| UL | Underwriters Laboratories |
| UV | Ultraviolet |
| VCD | Variable-Capacitance Diode |
| VCO | Voltage Controlled Oscillator |
| VCXO | Voltage Controlled Crystal Oscillator |
| VHF | Very High Frequency |
| VIF | Video Intermediate Frequency |
| VR | Variable Resistor |
| VTR | Video Tape Recorder |
| VTVM | Vacuum Tube Voltmeter |
| TR | Transistor |

## 2-2 IC Line Up

**Table 2 - 3 IC Line - Up**

| NO | BOARD | LOC. NO | SPEC | DESCRIPTION | REMARK |
|---|---|---|---|---|---|
| 1 | MAIN | IC201S | VDP3140 | Video Processor | Refer to Table 2-3-1 |
| | | | DDP3310 | Sipadoss-Module, Video Processor | |
| | | | VPC3230 | | |
| | | | OKI/SDA9401 | | |
| | | IC601 | MSP3411G | Multistandard Sound Processor | Refer to Table 2-3-2 |
| | | IC901 | SDA555X | MICOM, TTX(MTP) | |
| | | IC902 | KS24L161 | EEPROM | |
| | | IC602 | TDA7297 | Audio AMP | Refer to Table 2-3-3 |
| | | HIC201 | DRGB001 | RGB Drive AMP Hybrid IC | VM Option |
| | | HIC202 | | | |
| | | HIC203 | | | |
| | | HIC204 | | | |
| | | HIC401 | DDRI001 | 100Hz Horizontal Pulse AMP | Option |
| | | IC301 | LA7845 | Vertical IC | |
| | | Q402 | BUZ73A | Horizontal Drive IC | HC401 |
| | | Q401 | 2SC5446 | | |
| | | D414 | FMP-3FU | | |
| | | IC401 | KA393 | E/W Drive IC | |
| | | Q404 | IRF620 | | |
| | | IC801S | 3S1265RB | SPS Controllor | |
| | | | 3S1265RD | | |
| | | D801S | RBV606 | Bridge Diode | |
| | | PC801S | PC123Y | Photo Coupler | |
| | | IC802 | KA78R05 | 5V Controlled Regulator | |
| | | D805 | FML-G12S | Rectifier Diode | HC801 |
| | | D806 | | | |
| | | D807 | | | |
| | | D802 | FMG-G2CS | | |
| | | IC201 | KA78RM33 | 3.3V Regulator | |
| | | IC804 | KA7806 | 6V Regulator | |
| | | IC803 | KA78R08 | 8V Controlled Regulator | |
| | | IC903 | KA78RM33 | 3.3V Regulator | |
| | | IC904 | KIA7025AP | MICOM Reset IC | |

| Table 2 - 3 IC Line - Up | | | | | |
|---|---|---|---|---|---|
| **NO** | **BOARD** | **LOC. NO** | **SPEC** | **DESCRIPTION** | **REMARK** |
| **1** | **MAIN** | Q909 | 2N7000 | IIC Level Shifter | |
| | | Q910 | | | |
| **2** | **CRT** | IC501 | TDA5109<br>TDA6111Q | Video Output AMP R.G.B Drive | FLAT |
| | | IC502 | | | FLAT |
| | | IC503 | | | FLAT |
| | | QF04 | 2SC2344 | Push-Pull (VM) | |
| | | QF05 | 2SA1011 | | |
| | | QG02 | KSA940 | TR-Power (TILT) | Option |
| | | QG03 | KSD2073-H2 | | |
| | | ICG01 | KA4558 | OP-AMP (TILT) | |
| **3** | **DOUBLE FOCUS** | ICH01 | KA4558 | OP-AMP | Option |
| | | QH01 | 2SC4636RB | TR-Power | |
| **4** | **V-S/W** | ICS01 | TEA6425 | Video Switching IC with Adder Output | Option |
| **5** | **PIP** | ICP01 | SDA9489X | High-end Picture-In Picture IC | Option |
| | | | SDA9488 | 1-TUNER PIP | Option |
| | | ICP0 | EZ1086CM | 3.3V Regulator | Option |

**Table 2-3-1 VIDEO IC (IC201S)**

| SPEC | FUNCTION | REMARK |
|---|---|---|
| VDP3140D | 100Hz Video Processor | |
| DDP3310 | Sipadoss Module<br>AA98-00133A(with OKi)<br>AA98-00134B(with SDA9401) | |
| VPC3230 | | |
| OKi | | |
| SDA9401 | | |

**Table 2-3-2 SOUND IC (IC601)**

| SPEC | FUNCTION | REMARK |
|---|---|---|
| MSP3400D | Multistandard, A2 Stereo | |
| MSP3410D | Multistandard, A2 Stereo, Nicam | |
| MSP3411G | Multistandard, A2 Stereo, Nicam, Vitual Dolby | |

**Table 2-3-3 SOUND AMP (IC602)**

| SPEC | FUNCTION | |
|---|---|---|
| TDA7297 | 15W x 2CH, 10W x 2CH | **REMARK** |

**Table 2-3-4 1'st TUNER (TU01S)**

| SPEC | FUNCTION | REMARK |
|---|---|---|
| TCLS3101PD09A(S) | CS with LNA Function | Main(Old) |
| TCPS3000P | CS | |
| TCPS3001PD09E(S) | CS | India |
| TCPW3001PD09A(S) | CZ, CW | |
| TCLS3101PD16A | CS | Main(New) |

**Note** **TCPS3001PD09A(S) is out-of-date, TCPS3001PD09D(S) which is up-to-date has the same function.**

**Table 2-3-5 2'nd TUNER (TU02S)**

| SPEC | FUNCTION | REMARK |
|---|---|---|
| TCPS3000PC09B(S) | CS | Sub(Old() |
| TCPS3000PC16B | CS | Sub(New) |

# MEMO